

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A component transportation and installation device which is a device which transports and installs an installed component in an installation position of a receiving body, ~~characterized by providing~~ comprising:

a grip mechanism which grips ~~[[an]]~~ the installed component;

component transportation means of moving ~~[[this]]~~ the grip mechanism with an actuator;

first actuator control means of controlling the actuator of ~~[[this]]~~ the component transportation means according to a set-value predetermined route and performing drive control so as to transport and install the installed component in the installation position;

second actuator control means of performing assist control of the actuator of the component transportation means, and performing drive control so as to reduce a burden of a worker performing operation in order to transport and install the installed component in the installation position; and

mode switch means for switching between the first actuator control means and the second actuator control means, wherein the first actuator control means switches to the second actuator control means every time the mode switch means is actuated and wherein the second actuator control means automatically reverts back to the first actuator control means the instant the mode switch means is no longer being actuated.

2. (Currently Amended) A component transportation and installation method which is a method of transporting and installing an installed component in an installation position of a receiving body using component transportation means having at least an

actuator for transportation, ~~characterized by comprising the steps of:~~ performing transportation and installation by selecting an actuator automatic control step of automatically transporting and installing the installed component in the installation position with controlling the actuator according to a set-value predetermined route, or an actuator assist control step of reducing a burden of a worker, who performs transportation and installation operation of the installed component, by performs assist control of the actuator, ~~at arbitrary time according to a work condition and the like wherein the worker switches between the actuator automatic control step and the actuator assist control step at any time according to a work condition.~~

3. (Currently Amended) A component transportation and installation method which ~~is a component transportation and installation method~~ including a step of installing an installed component, transported near an installation position, in a receiving body, ~~characterized by providing comprising the steps of:~~

~~a step of~~ positioning the installed component in ~~[[the]]~~ an installing section of the receiving body by operating the installed component transported near the installation position in an assist mode which can reduce a worker's burden, by actuating a mode control switch;

~~a step of~~ installing the positioned installed component in the receiving body automatically; and

~~a step of~~ moving a grip mechanism, which grips the installed component after completion of installation, to a predetermined position in an automatic mode, the automatic mode occurring the instant the mode control switch is no longer being actuated.

4. (Currently Amended) A component transportation and installation device ~~which is a transportation and installation device~~ for installing an installed component in a receiving body, ~~characterized by~~ comprising:

a grip mechanism which can grip the installed component;

component transportation means equipped with an actuator for transporting

~~[[this]]~~ the grip mechanism; and

an installation mechanism which can perform installation work ~~in a state that~~ when the installed component is positioned in an installing section of the receiving body, and in ~~that~~ wherein the operation of the actuator of the component transportation means is ~~made~~ includes ~~[[a]]~~ switching ~~[[type]]~~ between an automatic mode which does not need a worker, and an assist mode which can reduce a worker's burden although a worker's intervention is needed; and

~~[[that]]~~ a control means performing control to select the assist mode when positioning at least the installed component, wherein the control means selects the assist mode by actuating a mode control switch and wherein the assist mode reverts to the automatic mode the instant the control means stops actuating the mode control switch is provided.

5. (Currently Amended) A component transportation and installation method ~~which is a component transportation and installation method of~~ repeatedly transporting ~~[[an]]~~ at least two installed component components in a component supply position toward an installation position ~~[[with]]~~ including gripping ~~[[it]]~~ the at least two installed components by a grip mechanism while conveying a receiving body, which is given pitch feed, to the installation position sequentially, returning the grip mechanism to the component supply position at ~~[[the]]~~ a time of completion of installing the at least two installed component

components in the receiving body, ~~and repeating this, characterized by comprising the~~
steps of:

making ~~[[it]]~~ the grip mechanism free to perform switching between an automatic mode which does not need a worker, and an assist mode which can reduce a worker's burden although a worker's intervention is needed, ~~by actuating a mode control switch,~~
as means of transporting the at least two installed ~~component~~ components, and simultaneously

performing switching to ~~[[the]]~~ an automatic transportation mode after gripping the at least two installed ~~component~~ components by the grip mechanism and automatically transporting the at least two installed ~~component~~ components at least nearby the installation position; and

making the grip mechanism ~~returned~~ return to the component supply position in the automatic mode when an installation of the at least two installed ~~component~~ components is completed, wherein the automatic mode occurs every time the mode control switch is not being actuated and wherein the assist mode occurs every time the mode control switch is being actuated; and

simultaneously transporting and installing the at least two installed components in the installation position in a stop period of one pitch feed of the receiving body.

6. (Currently Amended) A component transportation device ~~which is a device for~~
transporting and installing ~~[[an]]~~ at least two installed ~~component~~ components in a receiving body which is given pitch feed, characterized by comprising:

receiving body transportation means for performing pitch feed of the receiving body;

a grip mechanism which grips the at least two installed component components
in a component supply position; and

component transportation means of transporting ~~[[this]]~~ the grip mechanism at least to ~~[[the]]~~ an installation position in an automatic transportation mode which does not need a worker, or an assist transportation mode which does not need a worker, or an assist transportation mode which can reduce a worker's burden although a worker's intervention is needed, and returning ~~[[it]]~~ the grip mechanism in the automatic transportation mode or assist transportation mode to the component supply position when installation is completed, and in that the grip mechanism is controlled so as to transport the at least two installed components in an installation position in a stop period of one pitch feed of the receiving body, wherein the automatic mode occurs every time a mode control switch is not being actuated and wherein the assist mode occurs every time the mode control switch is being actuated.